

CONSTRUCTION SPECIFICATIONS

MAINTENANCE DREDGING

ISLE OF WIGHT BAY CHANNEL, OCEAN CITY, WORCESTER COUNTY, MARYLAND

INVITATION NO. DACW31-03-B-0001

CONTRACT NO.

DATE: **FEB 20, 2003**

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SECTION 1 - SPECIAL CLAUSES

- 1. COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK: The Contractor will be required to commence work under this contract within 10 calendar days and to commence dredging work under this contract within 15 calendar days after the date of receipt by him of Notice to Proceed, to prosecute said work diligently and to complete the entire work ready for use not later than 35 calendar days after the date of receipt by him of notice to proceed. Environmental constraints dictate that dredging shall not be performed from 15 March through 30 June. If an extension of time is granted for delays, the appropriate extension of time will be granted to complete the remaining work during the next succeeding environmentally acceptable dredging period of 1 July through 14 March. Additional mobilization and demobilization as a result of time extensions granted under this contract will be the responsibility of the Contractor. Liquidated damages will not be charged during the environmental constraint period of 15 March through 30 June. Should the total quantity of material to be paid for and actually removed under the contract exceed the limit established in the Special Clause VARIATIONS IN ESTIMATED QUANTITIES-DREDGING, additional time will be allowed at the rate of one calendar day for each 2,000 cubic yards in excess of the established limit. The time stated for completion shall include final clean-up of the premises.
- 2. ESTIMATED QUANTITIES: The total estimated quantities of material necessary to be removed from within the specified limits, as shown on the contract drawings exclusive of allowable overdepth, to complete the work is 8,685 cubic yards place measurement. The maximum amount of allowable overdepth dredging is estimated to be 6,066 cubic yards place measurement.
- 3. LAYOUT OF WORK: (CEBABEN 1984 APR)
- 3.1 The Contractor shall be responsible for the layout of his work. The Government will furnish the channel centerline coordinates and bearings at the beginning point, at each point where the channel changes direction, and at the ending point; and the channel toe coordinates and bearings of both sides of the channel at the beginning point, at each point where the channel changes direction, and at the ending point. The Government will furnish the coordinates and the monument descriptions of the existing horizontal and vertical control within the project area. The Contractor shall be responsible, by utilizing this data, to dredge within the dredging prisms that are shown on the contract drawings. The Contractor shall maintain, preserve, repair or replace, at his own expense, any gates or location markers that are lost, damaged or destroyed for any reason subsequent to their initial establishment by the Contracting Officer until authorized to remove them.

The Contractor may, at his option, establish offset stakes, back-up stakes, and gages to be utilized in re-establishing any baseline, ranges and gages that are lost, damaged or destroyed. The contract completion time will not be increased due to work delays that result from the failure of the Contractor to maintain, repair or replace the Government established baselines, ranges and gages.

- 3.2 The Contractor shall give the Contracting Officer or his authorized representative adequate advance notice of the commencement of work in order to assure the timely completion of the before dredging survey and the establishment of necessary dredging layouts. The notice shall be furnished at least 15 days prior to mobilization of the dredge plant to the work site. It is understood that the survey made in response to this notice will constitute the before dredging survey and any subsequent surveys occasioned through Contractor delays may be charged against the Contractor at a rate of \$1,200.00 per day. If the Contractor fails to provide adequate advance notice, the Contracting Officer will not be responsible for any delays in the commencement of work caused by incomplete dredging layouts.
- 3.3 Datum and Bench Marks: The plane of reference MLLW (NOS), mean lower low water as established by National Ocean Survey, will be used in these specifications.
- 3.4 Horizontal Control: Horizontal control data will be provided to the Contractor on request. This request should be made to the Navigation Branch, telephone number (410) 962-6031.
- 3.5 PHYSICAL DATA: Information and data furnished or referred to below are furnished for information only and it is expressly understood that the Government will not be responsible for any interpretation or conclusion drawn therefore by the Contractor.
- 3.5.1 Physical Conditions: The physical conditions indicated on the contract drawings and in the specifications are the result of site investigations by surveys and probing. Records of previous dredging of the Federal channel indicate that the material to be removed by maintenance dredging consists principally of silt, gravel, shell, sand and combinations thereof.
- 3.6 Weather Conditions: Complete weather records and reports may be obtained from the U. S. Weather Bureau. The Contractor shall satisfy himself as to the hazards likely to arise from weather conditions during the dredging period. The site of work is exposed, and suspension of work may at times be necessary during extreme storm periods. Tidal currents have sufficient velocity and may have adverse effect on dredging operations. The mean range of tide is 1.5 feet, with greater fluctuations occurring during storm periods.
- 3.7 Transportation Facilities: The Contractor shall make his own investigation of transportation facilities in the vicinity of the work.
- 3.8 Conditions of Channel: The best information available as to the present conditions of the Federal channel in the Isle of Wight Bay are shown on the contract drawings. The Federal channel was last dredged in 1999.
- 3.9 Channel Traffic: Channel traffic consists of commercial vessels, commercial seafood boats, recreational craft, etc. and may cause minor delays to the dredging operations.

- 3.10 Obstruction of Channel: The Government will not undertake to keep the channel free from vessels or other obstructions, except to the extent of such regulations, if any, as may be prescribed by the Secretary of the Army, in accordance with the provisions of Section 7 of the River and Harbor Act approved 8 August 1917. The Contractor will be required to conduct the work in such manner as to obstruct navigation as little as possible, and in case the Contractor's plant so obstructs the channel as to make difficult or endanger the passage of vessels, said plant shall be promptly moved on the approach of any vessels to such an extent as may be necessary to afford a practicable passage. Upon completion of the work the Contractor shall promptly remove his plant, including ranges, buoys, piles, and other marks placed by him under the contract in navigable waters or on shore.
- 3.11 Navigation Aids: The Contractor shall not relocate or move any aids to navigation that has been established by the U.S Coast Guard. If it becomes necessary to have any aid to navigation moved in order to complete dredging operations under this contract, the Contractor shall notify the Fifth U. S. Coast Guard District, Office of Aids to Navigation, Portsmouth, Virginia 23705, ATTN. Mr. John Walters (757) 398-6230, in writing with a copy to the Contracting Officer or his authorized representative not less than 15 days prior to such need for movement. The Contractor shall notify the U.S. Coast Guard of the approximate times the navigation aid may be relocated to its original position.
- 3.12 Laying of Submerged Pipelines and Obstruction of Channel: Should it become necessary in the performance of this Contract to use a submerged pipeline across a navigable channel the Contractor shall notify the Contracting Officer in writing to be received in the District Office at least 15 working days prior to the desired closure date. This notification shall furnish the following:
- (a) Location (Channel Centerline Stationing) and depth (over the top of the pipeline) at which the submerged line will be place.
 - (b) The desired length of time the channel is to be closed.
 - (c) The date and hour placement or removal will commence.
 - (d) The date and hour of anticipated completion.
- 3.13 Notice To Mariners: Should the Contractor, during dredging operations, encounter any objects on the channel bottom which could be a hazard to navigation, he shall immediately notify the Contracting Officer or his authorized representative as to the location of said object and any other pertinent information necessary for the Contracting Officer or his authorized representative to put out a Notice to Mariners.
- 3.14 Bridge-to-Bridge Radio Communication:.

The Contractor shall monitor both channels 13 and 16.

Channel 13: The master, operator, or designated pilot of the vessel must maintain a listening watch on the designated bridge-to-bridge frequency while underway on the navigable waters of the United States. The designated frequency is VHF-FM Channel 13. The person maintaining the watch also must be able to communicate in English.

Channel 16: In addition to the Channel 13 watch, vessels must keep a continuous watch on VHF-FM Channel 16 (International Distress and Calling Channel) while underway, except when transmitting or receiving traffic on other VHF-FM channels (e.g., vessels may switch to other channels to pass traffic, listen to weather reports, etc.) or when participating in and monitoring a VTS channel. While not required to have a VHF-FM radio onboard (Voluntary Ship Stations), vessels not subject to the bridge-to-bridge regulations must maintain a watch on Channel 16 whenever the radio, if onboard, is operating (i.e., energized) and is not being used to communicate on other channels.

3.15 Notification of the Coast Guard: Prior to commencement of work on this contract, the Contractor will be required to notify the Commander, Fifth U. S. Coast Guard District of his intended operations to dredge and request that it is published in the Local Notice to Mariners. This notification must be given in sufficient time so that it appears in the Notice to Mariners at least one week prior to the commencement of this dredging operation.

4. LAYOUT OF WORK: (CEBABEN 1984 APR)

- 4.1 The Contractor shall be responsible for the layout of his work. The Government will furnish the channel centerline coordinates and bearings at the beginning point, at each point where the channel changes direction, and at the ending point; and the channel toe coordinates and bearings of both sides of the channel at the beginning point, at each point where the channel changes direction, and at the ending point. The Government will furnish the coordinates and the monument descriptions of the existing horizontal and vertical control within the project area. The Contractor shall be responsible, by utilizing this data, to dredge within the dredging prisms that are shown on the contract drawings. The Contractor shall maintain, preserve, repair or replace, at his own expense, any gates or location markers that are lost, damaged or destroyed for any reason subsequent to their initial establishment by the Contracting Officer until authorized to remove them. The Contractor may, at his option, establish offset stakes, back-up stakes, and gages to be utilized in re-establishing any baseline, ranges and gages that are lost, damaged or destroyed. The contract completion time will not be increased due to work delays that result from the failure of the Contractor to maintain, repair or replace the Government established baselines, ranges and gages.
- 4.2 The Contractor shall give the Contracting Officer or his authorized

representative adequate advance notice of the commencement of work in order to assure the timely completion of the before dredging survey and the establishment of necessary dredging layouts. The notice shall be furnished at least 15 days prior to mobilization of the dredge plant to the work site. It is understood that the survey made in response to this notice will constitute the before dredging survey and any subsequent surveys occasioned through Contractor delays may be charged against the Contractor at a rate of \$ 1,200.00 per day. If the Contractor fails to provide adequate advance notice, the Contracting Officer will not be responsible for any delays in the commencement of work caused by incomplete dredging layouts.

- 4.3 Datum and Bench Marks: The plane of reference MLLW (NOS), mean lower low water as established by National Ocean Survey, will be used in these specifications.
- 4.4 Horizontal Control: Horizontal control data will be provided to the Contractor on request. This request should be made to the Navigation Branch, telephone number (410) 962-6031.

5. SIGNAL LIGHTS:

- 5.1 The Contractor shall display lights and conduct his operations in accordance with the General Regulations of the Department of the Army and of the Coast Guard governing lights and day signals to be displayed by towing vessels with tows on which no signals can be displayed, vessels working on wrecks, dredges, and vessels engaged in laying cables or pipe or in submarine or bank protection operations, lights to be displayed on dredge pipe lines, and day signals to be displayed by vessels of more than 65-feet in length moored or anchored in a fairway or channel, and the passing by other vessels of floating plant working in navigable channels, as set forth in Commandant U.S. Coast Guard Instruction M16672.2, Navigation Rules: International-Inland (Comdtinst M16672.2), or 33 CFR 81 Appendix A (International) and 33 CFR 84 through 33 CFR 89 (Inland) as applicable. (DAEN-PRP-1984 JUL)
- 5.2 Marking of Floating Dredge Pipeline: The Contractor will be required to mark the floating dredge pipeline in accordance with U.S. Coast Guard navigation rules, inland NX5-88.15. As a minimum the Contractor will mark the pipeline with amber lights visible on all points of the horizon for 2 miles on a clear night. The lights shall flash at 50-70 times per minute and be placed between 1 and 3.5 meters above the water. Spacing shall be sufficient to clearly show the pipeline length and course. Where the pipeline crosses a navigable channel spacing shall be every 10 meters. Two red lights, visible on all points of the horizon, shall be displayed at each end of the floating pipeline. They shall be arranged vertically 1 meter apart with the lower light at the same elevation as the amber lights.
- 6. ACCOMMODATIONS AND MEALS FOR INSPECTORS: (1965 APR OCE)
- 6.1 The Contractor shall furnish regularly to inspectors on board the dredge or other craft upon which they are employed a suitable separate room for

office and sleeping purposes. The room shall be fully equipped and maintained to the satisfaction of the Contracting Office; it shall be properly heated, ventilated, and lighted and they shall have a desk, which can be locked, a comfortable bed and chair for each inspector, and washing conveniences. The entire cost to the Contractor for furnishing, equipping, and maintaining the foregoing accommodations shall be included in the contract price. If the Contractor fails to meet these requirements, the Contracting Officer will secure the facilities referred to above, and the cost thereof will be deducted from payments to the Contractor.

- 6.2 If the Contractor maintains on this work establishment for the subsistence of his own employees, he shall, when required, furnish to inspectors employed on the work and to all Government agents who may visit the work on official business, meals of a quality satisfactory to the Contracting Officer. The meals furnished will be paid for by the Government at a rate of \$3.50 per person for each meal.
- 7. CONTRACTOR QUALITY CONTROL: Contractor Quality Control is the means by which the Contractor verifies that his construction/dredging complies with the requirements of the contract specifications. Contractor Quality Control shall be adequate to cover all construction/dredging operations including both onsite and offsite fabrication and will be keyed to the proposed construction/dredging sequence.
- 7.1 General: The Contractor shall provide and maintain an effective quality control program that complies with the Contract Clause INSPECTION OF CONSTRUCTION. The Contractor's Quality Control Program through inspection, testing, equipment/system operation, and reporting shall demonstrate and document the extent of compliance of all work with the standards and quality established by the contract documents. Inspection and test reports shall make reference to specific drawing and/or specification requirements and shall state inspection/test procedures with both expected and actual results.

The burden-of-proof of contract compliance is placed on the Contractor and not assumed by the Government. The Contractor's Quality Control will not be accepted without question.

- 7.2 Quality Control Plan: Within 7 calendar days after receipt of Notice to Proceed the Contractor shall furnish his Quality Control Plan and three copies thereof to the Contracting Officer or his authorized representative for review and approval. The plan shall cover in detail each feature of the project including dredging and disposal operations. Copies of the Quality Control Plan shall be made available on the dredge and at the disposal area. The Quality Control Plan the Contractor proposes to implement shall identify the personnel, procedures, instructions, records, and forms, and as a minimum, shall include:
 - (a) A description of the quality management organization:
 - (b) The number, classifications, qualifications, duties,

responsibilities and authorities of personnel. A copy of the letter signed by an authorized official of the firm, which describes the responsibilities and delegates the authorities of the system manager, shall be furnished.

- (c) Procedures for processing reports, samples and other submittals.
- (d) Quality control activities to be performed, including those of subcontractors.
- (e) Compliance inspections recorded on the Daily Quality Control Report and the Dredging Report, a sample of which is shown at the end of these specifications.

Construction or dredging will be permitted to begin only after approval of the Quality Control Plan or approval of that portion of the plan applicable to the particular feature of work to be started.

As an additional measure to the implementation of the Quality Control Plan, the Contractor shall meet with representatives of the Contracting Officer as soon as practicable after receipt of Notice to Proceed and before start of construction or dredging to discuss the Contractor's quality control system. The meeting shall develop a mutual understanding relative to details of his Quality Control Program including the forms for recording the quality control operations; control activities, testing, administration of the system for both onsite and offsite, and the interrelationship of Contractor and Government control and surveillance. Minutes of the meeting shall be prepared, signed by both the Contractor and the Contracting Officer or his authorized representative and shall become a part of the contract file. There may also be occasions when subsequent conferences will be called to reconfirm understandings.

- 7.2.1 Notification of Changes: After approval of the Quality Control Plan, the Contractor shall notify the Contracting Officer or his authorized representative in writing of any proposed change.
- 7.2.2 Work Deficiencies: The Contractor shall not build upon or conceal any work containing uncorrected defects. If deficiencies indicate that the Contractor's quality control system is not adequate or does not produce the desired results, corrective actions in both the quality control system and the work shall be taken by the Contractor. If the Contractor does not promptly make the necessary corrections, the Contracting Officer may issue an order stopping all or any part of the work until satisfactory corrective action has been taken. Payment for deficient work will be withheld until work as been satisfactorily corrected or other action is taken pursuant to the Contract Clause INSPECTION OF CONSTRUCTION.

If the above does not obtain effective improvement in the Contractor's quality control system, the Contracting Officer or his authorized representative may direct changes be made in the quality control system and/or organization, including but not limited to the removal and replacement of unsatisfactory

quality control representatives at any level or the addition of quality control personnel or services. Any additional cost to the Government for providing quality control services that are not satisfactorily performed by the Contractor will be deducted from payment due the Contractor.

If recurring deficiencies in an item or items indicate that the quality control system is not adequate, such corrective actions shall be taken as directed by the Contracting Officer or his authorized representative.

7.3 Quality Control Organization:

- 7.3.1 System Manager: The Contractor shall identify an individual within his organization at the site of the work, who shall be responsible for overall management and have the authority to act in all Contractor quality control matters for the Contractor.
- 7.3.2 Personnel: A staff shall be maintained under the direction of the system manager to perform all quality control activities. The actual strength of the staff during any specific work period may vary to cover work phase needs, shifts, and rates of dredging. At least one full-time Contractor quality control person fully alert and awake shall be present on the disposal area at all times pumping operations are in progress. The personnel of this staff shall be fully qualified by experience and technically trained to perform their assigned responsibilities.
- 7.4 Control: The Contractor's quality control system shall include at least the following three phases of control and management for definable features of work:
- (a) Preparatory: Twenty-four hours in advance of beginning any definable features of work, the Contractor's quality control manager shall review with the Government inspector(s) the applicable provisions of the specifications and Quality Control Plan and confirm the methods to assure compliance.
- (b) Initial: This phase of control must be accomplished at the time of arrival of disposal area and dredging personnel on site to accomplish a definable feature of work and at any time new workmen or crews arrive for assignment to the work. The Contractor's control system must permit the transfer of information on quality requirements specified in this contract to each workman before he starts, demonstration from each workman that he can provide the specified quality of work, and motivate him to continue. It is also during this phase that control testing to prove the adequacy of the Contractor's control procedures shall be initiated and verified. The Contracting Officer or the authorized representative shall be notified at least 24 hours in advance of each initial activity.
- (c) Follow-up: The follow-up phase shall be performed continuously to verify that control procedures are providing an end product, which complied with contract requirements. Adjustments to control procedures may be required

based upon the results of these phase and compliance inspections.

7.5 Completion: At the completion of the work, the Contractor's quality control representative shall conduct a joint completion review with the Government inspector(s). During this review the work shall be examined, quality control shall be reviewed, and a list shall be developed of work not properly completed or not conforming to plans and specifications. This list shall be included in the quality control documentation with an estimated date for correction of each deficiency. The Contractor shall make sure that deficiencies have been corrected prior to the specified completion date. Payment will be withheld for defective or deficient features until they are satisfactorily corrected except as otherwise provided in the Contract Clause INSPECTION OF CONSTRUCTION.

7.6 Quality Control Records:

- 7.6.1 The Contractor shall maintain current records, on an appropriate approved form, of quality control operations, activities, and tests performed including the work of suppliers and subcontractors. These records shall include factual evidence that the required activities or tests have been performed, including but not limited to the following:
 - (a) Type and number of control activities and compliance inspections.
 - (b) Results of control activities or inspections.
 - (c) Nature of defects, causes for rejection, etc.
 - (d) Proposed remedial action.
 - (e) Corrective actions taken.
- 7.6.2 These records shall cover both conforming and defective or deficient features and shall include a statement that supplies and materials incorporated in the work comply with the contract. The Contractor shall submit legible, daily quality control reports to the Government inspector on the day following the report period. The records shall cover development of the disposal area(s), related piping, and dredging performed during the time period for which the records are furnished. The person so designated by the Contractor shall verify these records. Failure to follow these procedures will be considered a breach of the Quality Control Program and portions of the progress payment may be withheld until it is demonstrated by the Contractor that the construction activities covered by the delinquent reports meet the requirements of the plans and specifications.
- 7.7 Measurement and Payment: No separate measurement and payment will be made for the work performed in Contractor Quality Control, specified herein, and all costs in connection therewith shall be considered a subsidiary obligation of the Contractor, and shall be included in the overall cost of the work.

- 8. EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE: (Oct 1995)
- (a) This clause does not apply to terminations. See 52.249-5000, Basis for settlement of proposals and FAR Part 49.
- (b) Allowable cost for construction and marine plant and equipment in sound workable condition owned or controlled and furnished by a Contractor or subcontractor at any tier shall be based on actual cost data for each piece of equipment or groups of similar serial and series for which the government can determine both ownership and operation costs from the Contractor's accounting records. When both ownership and operating costs can not be determined for any piece of equipment or groups of similar serial or series equipment from the Contractor's accounting records, costs for that equipment shall be based upon the applicable provisions of EP 1110-1-8, "Construction Equipment Ownership and Operating Expenses Schedule, " Region East. Working conditions shall be considered to be average for determining equipment rates using the schedule unless specified otherwise by the Contracting Officer. For equipment not included in the schedule, rates for comparable pieces of equipment may be used or a rate may be developed using the formula provided in the schedule. For forward pricing, the Schedule in effect at the time of negotiations shall apply. For retroactive pricing, the schedule in effect at the time the work was performed shall apply.
- (b) Equipment rental costs are allowable, subject to the provisions of FAR 31.105 (d)(ii) and FAR 31.205-36. Rates for equipment rented from an organization under common control, lease-purchase arrangements and sale-leaseback arrangements, will be determined using the schedule except that actual rates will be used for equipment leased from an organization under common control that has an established practice of leasing the same or similar equipment to unaffiliated leasees.
- (c) When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, the contracting officer shall request the contractor to submit either certified cost or pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, contract Pricing Proposal Cover Sheet.

9. SAFETY:

- 9.1 General: The Contractor shall comply with the Contract Clause ACCIDENT PREVENTION. EM 385-1-1, September 1996, subject: Safety and Health Requirements Manual, is a part of these specifications.
- 9.2 Accident Prevention Program: Within 7 calendar days after receipt of Notice to Proceed the Contractor shall furnish his Accident Prevention Program and three copies thereof to the Contracting Officer or his authorized representative for review and approval. The program shall be prepared in the following format:

- (a) Administrative Plan
- (b) Job Hazard Analysis
- (c) A copy of company policy statement of accident prevention and any other guidance statements normally provided new employees.
- (d) When marine plant and equipment are in use the Contractor shall assure that oil transfer operations to or from his plant comply with all Federal, State, county, and Municipal laws, codes and regulations. Particular attention is invited to 33CFR Subchapter 0, POLLUTION. The Contractor shall incorporate in his accident prevention program, submitted in compliance with Contract Clause ACCIDENT PREVENTION, sufficient information to demonstrate that all fuel transfers will be made in accordance with 33 CFR 156 and any other applicable laws, codes and regulations. (CENABEN 1984 APR)

The Contractor shall not commence physical work at the project site until the Contracting Officer or his authorized representative has approved the program. As an additional measure to implementation of the Accident Prevention Program, the Contractor shall meet with representatives of the Contracting Officer as soon as practicable after receipt of Notice to Proceed and before start of work to discuss and develop a mutual understanding relative to administration of the overall safety program. Minutes of the meeting shall be prepared, signed by the Contractor and the Contracting Officer or his authorized representative. At the Contracting Officer's discretion, the Contractor may submit his Job Hazard Analysis only for the phases of construction. All remaining phases shall be submitted and accepted prior to the beginning of work in each phase. EM 385-1-1.

- 9.3 Accident Investigation and Reporting: Accidents shall be investigated by immediate supervisor of the employee(s) involved and reported to the Contracting Officer or the Government inspector within one working day after the accident. Paragraph 02.A.02, EM 385-1-1.
- (a) The Contractor shall insure that all accidents which involve loss of life, occupational disease of the employee, injury incapacitating any person for normal work beyond the day of injury, or damage to property, materials, supplies, or equipment, of \$700.00 or more, and which relate to the dredge, any attendant plant, the dredge working area, or the disposal area, shall be recorded, investigated, and reported to the Contracting Officer or his authorized representative.
- (b) Each accident shall be verbally reported to the Government inspector at the earliest practicable time. Each accident involving loss of life or traumatic injury to any person shall be reported to the Government inspector verbally, telephonically, or by radio as soon as possible.
- (c) The Contractor shall promptly investigate each accident and submit a written, signed report on ENG Form 3394 to the Government inspector within 48 hours.

- (d) A factual record of each accident shall be entered in the Contractor's official daily logbook.
- 9.4 Daily Inspections: The Contractor shall institute a daily inspection program to assure all safety requirements are being fulfilled. Reports of daily inspections shall be maintained in the Contractor's official daily logbook. The reports shall be records of the daily inspections and resulting actions. Each report will include, as a minimum, the following:
 - (a) Phase(s) of construction underway during the inspection.
 - (b) Locations of area inspections were made.
- (c) Results of inspection, including nature of deficiencies observed and corrective actions taken, or to be taken, date, and signature of the person responsible for its contents.
- 9.5 Means of Escape for Personnel Quartered or Working on Floating Plant: Two means of escape shall be provided for assembly, sleeping, and messing areas on floating plants. For areas involving 10 or more persons, both means of egress shall be through standard size doors opening to different exit routes. Where 9 or fewer persons are involved, one of the means of escape may be a window (minimum dimensions 24-inch by 36-inch) which leads to a different exit route. EM 385-1-1.
- 9.6 Emergency Alarms and Signals:
- 9.6.1 Alarms. Emergency alarms shall be installed and maintained on all floating plant requiring a crew where it is possible for either a passenger or crewman to be out of sight or hearing from any other person. The alarm system shall be operated from the primary electrical system with standby batteries on trickle charge that will automatically furnish the required energy during an electrical-system failure.

9.6.2 Signals:

- (a) Fire Alarm Signals: The general fire alarm signal shall be in accordance with paragraph 97.13-15b of the Coast Guard Rules and Regulations for Cargo and Miscellaneous Vessels, Subchapter I, 1 Sep 77 (CG 257)
- (b) Abandon Ship Signals: The signal for abandon ship shall be in accordance with paragraph 97.13-15c of referenced cited in (a) above.
- (c) Man-Overboard Signal: Hail and pass the word to the bridge. All personnel and vessels capable of rendering assistance shall respond.
- 9.7 Mooring Lines: Eye loops on mooring lines shall be equipped with beckets or handling ropes to protect the hands of deckhands.

10. FUEL USAGE: The Contractor shall furnish the Contracting Officer a report, to be received on or before the last day of the calendar month, listing the totals of fuels consumed by the dredging plant and supporting vessels. The report shall list the quantities of different fuels separately. The report shall cover the period from the 25th of the preceding month to the 25th of the current month. This information may be included in the Contractor's Daily Report of Operations.

11. ENVIRONMENTAL LITIGATION: (1974 NOV OCE)

- (a) If the performance of all or any part of the work is suspended, delayed, or interrupted due to an order of a court of competent jurisdiction as a result of environmental litigation, as defined below, the Contracting Officer, at the request of the Contractor, shall determine whether the order is due in any part to the acts or omissions of the Contractor or a Subcontractor at any tier not required by the terms of this contract. If it is determined that the order is not due in any part to acts or omissions of the Contractor or a Subcontractor at any tier other than as required by the terms of this contract, such suspension, delay, or interruption shall be considered as if ordered by the Contracting Officer in the administration of this contract under the terms of the Contract Clause SUSPENSION OF WORK. The period of such suspension, delay or interruption shall be considered unreasonable, and an adjustment shall be made for any increase in the cost of performance of this contract (excluding profit) as provided in that clause, subject to all the provisions thereof.
- (b) The term "environmental litigation", as used herein, means a lawsuit alleging that the work will have an adverse effect on the environment or that the Government has not duly considered, either substantively or procedurally, the effect of the work on the environment.
- 12. WORK AT NIGHTS: For night operations the Contractor shall provide and maintain, at his expense, two light towers equipped with a 3 KW generator (minimum). Each light tower will have metal halide bulbs (1000 watt) or equivalent, capable of giving off a minimum of 200,000 lumens. No work will be permitted after dusk without the aid of both light towers.
- 13. RADIO COMMUNICATIONS: At all times pumping operations are in progress, the Contractor is responsible and required to provide any and all equipment necessary to maintain 24-hour oral communication between the dredge operator, Quality Control System Manager, and the Corps of Engineers' inspector on the disposal area. For this purpose, the Contractor shall provide and maintain at his expense a marine band walkie-talkie radio for use by the Government inspector(s). The Contractor is responsible for any and all circumstances not conforming to the plans and specifications resulting from the inadequate operation of the equipment.
- 14. PROGRESS SCHEDULING AND REPORTING: (JUN 1975) In accordance with the

Contract Clauses, the Contractor, shall within 5 days or as otherwise determined by the Contracting Officer, after date of commencement of work, submit for approval a practicable progress schedule showing the manner in which he intends to prosecute the work. ENG Form 2454 ("Physical Construction Progress Chart") will be furnished upon request for use in preparing this schedule. If a Contractor form is used, the same information as shown in the ENG Form 2454 shall be provided. Preparation and updating of the schedule shall be as follows:

- 14.1 Preparation: The progress schedule shall be prepared in the form of time-scaled summary network diagram graphically indicating the sequence proposed to accomplish each work activity or operation, and appropriate interdependencies between the various activities. The chart shall show the starting and completion dates of all activities on a linear horizontal time scale beginning with the dates of Notice to Proceed and indicating calendar days to completion. Each activity in the construction shall be represented by an arrow and shall have a beginning and ending node (event). The entire project shall have only one beginning node and one ending node. The arrangement of arrows shall be such that they flow from left to right. arrow representing an activity shall be annotated to show the activity description, duration and cost. The Contractor shall indicate on the chart the important work activities that are critical to the timely overall completion of the project. Key dates for important features or portions of work features are milestone dates and shall be so indicated on the chart. Based on this chart, the Contractor shall prepare an earnings-time curve (S Curve) showing the rate of progress in terms of money and percent completion. Schedule progress may not include the value of materials or equipment delivered to the job site but not yet incorporated into the work. This schedule shall be the medium through which the timeliness of the Contractor's construction effort is appraised.
- 14.2 Updating: The Contractor shall update the schedule by entering actual progress thereon at monthly intervals. The status of activities completed or partially completed as of the end of each period shall be shown, as well as the percentage of work completed. In computing actual progress, the value of material and equipment on site but not incorporated into the work may not be considered. When the Contracting Officer authorizes changes that result in contract time extensions, the Contractor shall submit a modified chart for approval. The Contract Clause SCHEDULES FOR CONSTRUCTION CONTRACTS with reference to overtime, extra shifts, etc., may be invoked when the Contractor fails to start or complete work activities or portions of same by the date indicated on the approved progress chart, or when it is apparent to the Contracting Officer from the Contractor's actual progress that these dates will not be met. (CENABCO-E)
- 15. CONTINUITY OF WORK: No payment will be made for work done in any area designated by the Contracting Officer until the full depth required under the contract is secured in the whole of such area, unless prevented by ledge rock, nor will payment be made for excavation in any area not adjacent to and in prolongation of areas where full depth has been secured except by decision of

the contracting officer. Should any such nonadjacent area be excavated to full depth during the operations carried on under the contract, payment for all work therein may be deferred until the required depth has been made in the area intervening. The Contractor may be required to suspend dredging at any time when for any reason the gages or ranges cannot be seen or properly followed.

- 16. MISPLACED MATERIAL: Should the Contractor during the progress of the work, lose, dump, throw overboard, sink, or misplace any material, plant machinery, or appliance, which in the opinion of the Contracting Officer may be dangerous to or obstruct navigation, the Contractor shall recover and remove the same with the utmost dispatch. The Contractor shall give immediate notice, with description and location of such obstructions, to the Contracting Officer or inspector, and when required shall mark or buoy such obstructions until the same are removed. Should he refuse, neglect, or delay compliance with the above requirements, such obstructions may be removed by the Contracting Officer, and the cost of such removal may be deducted from any money due or to become due to the Contractor, or may be recovered under his bond. The liability of the Contractor of the removal of a vessel wrecked or sunk without fault or negligence shall be limited to that provided in Section 15, 19, and 20 of the River and Harbor Act of March 3, 1899 (33 U.S.C. 410 et seq.).
- 17. INSPECTION: The Government inspector(s) will direct the maintenance of the gauges, ranges, location marks and limit marks in proper order and position; but the presence of the Government inspector(s) shall not relieve the Contractor of responsibility for the proper execution of the work in accordance with the specifications. The Contractor will be required:
- (a) To furnish, on the request of the Contracting Officer, any Government inspector, or authorized representative, the use of such boats, boatmen, laborers, and material forming a part of the ordinary and usual equipment and crew of the dredging plant as may be reasonably necessary in inspecting and supervising the work. However, the Contractor will not be required to furnish such facilities for the surveys prescribed in the Special Clause FINAL EXAMINATION AND ACCEPTANCE.
- (b) To furnish, on the request of the Contracting Officer, any Government inspector, or authorized representative, suitable transportation from all points on shore designated by the Contracting Officer to and from the various pieces of plant, and to and from the disposal site.
- (c) Should the Contractor refuse, neglect, or delay compliance with these requirements, the specific facilities may be furnished and maintained by the Contracting Officer, and the cost thereof will be deducted from any amounts due or to become due the Contractor.

18. FINAL EXAMINATION AND ACCEPTANCE:

(a) As soon as practicable after the completion of the entire work or

any section thereof (if the work is divided into sections) as in the opinion of the Contracting Officer or his authorized representative will not be subject to damage by further operations under the contract, such work will be thoroughly examined at the cost and expense of the Government by sounding or by sweeping, or both, as determined by the Contracting Officer or his authorized representative. Should any shoals, lumps, or other lack of contract depth be disclosed by this examination the Contractor will be required to remove same by dragging the bottom or by dredging at the contract rate for dredging, but if the bottom is soft and the shoal areas are small and form no material obstruction to navigation, the removal of such shoal may be waived by the discretion of the Contracting Officer or his authorized representative. The Contractor or his authorized representative will be notified when soundings and/or sweepings are to be made, and will be permitted to accompany the survey party. When the area is found to be in a satisfactory condition, it will be accepted finally. Should more than two sounding or sweeping operations by the Government over an area be necessary by reason of work for the removal of shoals disclosed at a prior sounding or sweeping, the cost of such third and any subsequent sounding or sweeping operations will be charged against the contractor at the rate of \$1,200.00 per day for each day in which the Government plant is engaged in sounding or sweeping and/ or is enroute to or from the site or held at or near the said site for such operations.

(b) Final acceptance of the whole or a part of the work and the deductions or corrections of deductions made thereon will not be reopened after having once been made, except on evidence of collusion, fraud, or obvious error, and the acceptance of a completed section shall not change the time of payment of the retained percentages of the whole or any part of the work.

19. SHOALING:

- 19.1 If, before the contract is completed, shoaling occurs in any section previously accepted, including shoaling in the finished channel, because of the natural lowering of the side slopes, redredging at contract price, within the limit of available funds, may be done if agreeable to both the contractor and the contracting officer.
- 19.2 If before dredging survey indicates shoaling in the channel immediately adjacent to the channel to be dredged, the Contractor will be required to dredge the additional shoaling at the contract unit price if directed by the Contracting Officer.

20. ENVIRONMENTAL PROTECTION:

20.1 General: The Contractor shall furnish all labor, materials and equipment, to perform all work required for the prevention of environmental pollution during, and as the result of, construction/dredging operations under this contract except for those measures set forth in the technical Provisions of these specifications. For the purpose of this specification, environmental

pollution is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; or affect other species of importance to man. The control of environmental pollution requires consideration of air, water, and land.

- 20.2 Applicable Regulations: The Contractor and his subcontractors in the performance of this contract, shall comply with all applicable Federal, State, and local laws and regulations concerning environmental pollution control and abatement in effect on the date of this solicitation, as well as the specific requirements stated elsewhere in the contract specifications.
- 20.3 Water Quality Certification: A copy of the water quality certificate is included as proof of authority to be conducting the authorized work.
- 20.4 Notification: The Contracting Officer or his authorized representative will notify the Contractor of any noncompliance with the foregoing provisions and the action to be taken. The Contractor shall, after receipt of such notice, immediately take corrective action. If the Contractor fails or refuses to comply promptly, the Contracting Officer or his authorized representative may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of time lost due to any such stop order shall be made subject of a claim for extension of time or for excess costs or damages by the Contractor unless it is later determined that the Contractor was in compliance.
- 20.5 Subcontractors: Compliance with the provisions for environmental protection by subcontractors shall be the responsibility of the Contractor.
- 20.6 Protection of Water Resources: The Contractor shall not pollute streams, lakes or reservoirs with fuels, oils, bitumens, calcium chloride, acid construction wastes, or other harmful materials. All work under this contract shall be performed in such a manner that objectionable conditions will not be created in streams through or adjacent to the project area. The Contractor shall take special positive protective measures to prevent spillage of potential pollutant materials such as fuel, emulsion materials, chemicals etc., from storage containers or equipment into public waters. Such positive protective measures may include, but not limited to the following:
 - (a) A berm enclosure of sufficient capacity to contain such materials.
- (b) Security measures to prevent acts of vandalism, which could result in spillage of such materials (fences, guards, etc.).
- (c) Storage of such materials in an area where the terrain would preclude leakage into public waters.
- (d) Utilization of secure Government storage areas if the Contracting Officer indicates such space is available. No storage past immediate needs (2 days) without the consent of the Contracting Officer or his authorized

- 20.7 Burning: Burning shall be in compliance with Federal, State, and local laws. The Contractor shall be responsible for obtaining all required burning permit approvals.
- 20.8 Dust Control: The Contractor shall maintain all work areas free from dust, which would contribute to air pollution. Approved temporary methods of stabilization consisting if sprinkling, chemical treatment, light bituminous treatment or similar methods will be permitted to control dust. Sprinkling, where used, must be repeated at such intervals as to keep all parts of the disturbed area at least damp at all times. Dust control shall be performed as the work proceeds and whenever a dust nuisance or hazard occurs.

20.9 Protection of Land Resources:

20.9.1 General: It is intended that land resources within the project boundaries and outside the limits of the permanent work performed under this contract be preserved in their present condition or be restored to a condition after completion of construction that will appear to be natural and not detract from the appearance of the project. Insofar as possible, the Contractor shall confine his construction activities to areas defined by the plans and specifications or to be cleared for other operations. The following additional requirements are intended to supplement and clarify the requirements of the CONTRACT CLAUSES.

20.9.2 Protection of Trees Retained:

- (a) The Contractor shall be responsible for the protection of the tops, trunks, and roots of all existing trees that are to be retained on the site. Protection shall be maintained until all work in the vicinity has been completed and shall not be removed without the consent of the Contracting Officer or the authorized representative of the contracting officer. If the Contracting Officer or his authorized representative finds that the protective devices are insufficient, additional protection devices shall be installed.
- (b) Heavy equipment, vehicular traffic, or stockpiling of any materials shall not be permitted within the drip line of trees to be retained.
- (c) No toxic materials shall be stored within 100 feet from the drip line of trees to be retained.
- (d) Except for areas shown on the contract drawings to be cleared, the Contractor shall not deface, injure, or destroy trees or shrubs, nor remove or cut them without special authority. Existing nearby trees shall not be used for anchorage unless specifically authorized by the Contracting Officer or his authorized representative. Where such special emergency use is permitted, the Contractor or his authorized representative shall first adequately protect the trunk with a sufficient thickness of burlap over which softwood cleats shall be tied.

- (e) No protective devices, signs, utility boxes or other objects shall be nailed to trees to be retained on the site.
- 20.10 Restoration of Landscape Damage: Any tree or other landscape feature scarred or damaged by the Contractor's operations shall be restored as nearly as possible to its original condition at the Contractor's expense. Contracting Officer or his authorized representative will decide what method of restoration shall be used and whether damaged trees shall be treated and healed or removed and disposed of. All scars made on trees, designated on the plans to remain, and all cuts for the removal of limbs larger than 1 inch in diameter shall be coated as soon as possible with an approved tree-wound dressing. Experienced workmen shall perform all trimmings or pruning in an approved manner with saws or pruning shears. Tree trimming with axes will not be permitted. Where tree climbing is necessary, the use of climbing spurs will not be permitted. Trees that are to remain, either within or outside established clearing limits, that are subsequently damaged by the Contractor and are beyond saving in the opinion of the Contracting Officer or his authorized representative, shall be immediately removed and replaced with a nursery-grown tree of the same species. Replacement trees shall measure no less than 2 inches in diameter at 6 inches above the ground level.
- 20.11 Location of Storage and Service Facilities: The location on Government property of the Contractor's storage and service facilities, required temporarily in the performance of the work, shall be upon cleared portions of the jobsite or areas to be cleared. The preservation of the landscape shall be an imperative consideration in the selection of all sites.
- 20.12 Temporary Excavation and Embankments: If the Contractor proposes to construct temporary roads, embankments, or excavations for plant and/or work areas, he shall submit a plan for approval prior to scheduled start of such temporary work.
- 20.13 Waste Disposal: Disposal of any materials, wastes, effluents, trash, garbage, oil, grease, chemicals, etc., in areas adjacent to the work site shall not be permitted. If waste material is dumped in unauthorized areas, the Contractor shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed of as directed by the Contracting Officer, replaced with suitable fill material, compacted and planted as required to reestablish vegetation.
- 20.14 Toilet Facilities: The Contractor shall provide on-shore toilet facilities, in accordance with paragraph 02.B, EM 385-1-1, at the dredged material disposal site. Dredge plant toilet facilities may not be substituted for on-shore facility requirements.
- 20.15 Corrective Action: The Contractor shall, upon receipt of a notice in writing of any noncompliance with the foregoing provisions, take immediate corrective action. If the Contractor fails or refuses to comply promptly, the

Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to any such stop orders shall be made the subject of a claim for extension of time or for excess costs of damages by the Contractor unless it was later determined that the Contractor was in compliance.

- 20.16 Measurement and Payment: No separate measurement and payment will be made for the work preformed in Environmental Protection, specified herein, and all costs in connection therewith shall be considered a subsidiary obligation of the Contractor and shall be included in the overall cost of the work.
- 21. SUBCONTRACTS: In accordance with Section 00100, Instructions, Conditions and Notices to Bidders, NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY, the Contractor shall, within 10 working days following award of any construction subcontract by the Contractor or a Subcontractor, deliver to the Contracting Officer or his authorized representative a completed form SF 1413.
- 22. AVAILABILITY OF COMMERCIAL SPECIFICATIONS, STANDARDS, AND DESCRIPTIONS: These specifications, standards, and descriptions are not available from Government sources. They may be obtained from the publishers listed below. See paragraph L.11 of the Instructions, Conditions, and Notices to Bidders for the availability of non-commercial specifications.

Corps of Engineers, U.S. Army (EM) (To be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C.)

- 23. CONTRACTOR'S RESPONSIBILITY: (ECI, APP.A) The Contractor shall be responsible that his employees strictly comply with all Federal, State, and municipal laws that may apply to operations under the contract; and it is understood and agreed that the Contractor assumes full responsibility for the safety of his employees, plant, and materials, and for any damage or injury done by or to them from any source or cause, except damage caused to the plant or equipment by acts of the Government, its officers, agents or employees, in which event such damages will be the responsibility of the Government in accordance with applicable Federal laws. For the purpose of this clause, the terms "officers, agents or employees" of the Government shall not include persons who are employed by the Contractor and whose services have been furnished to the Government pursuant to this or any other contract. (See also FAR 52.236-7 and FAR 52.236-13)
- 23.1 Responsibility For Contractor Plant and Government Property: The Government will not be responsible for the dredge and attendant plant, any Government property aboard the dredge and attendant plant, or any accidental damage thereto during the period of the contract. The Contractor shall release the Government and its officers and agents from all responsibility for damages to dock facilities, submerged and aerial crossings, bridges, moored vessels, or other damages ordinarily covered by fire and marine insurance.

(See also FAR 52.236-9)

- 23.2 Warranty: The Contractor warrants to the Government the quiet and peaceable use of the aforesaid property, and in case of any disturbance, by suit or otherwise, will defend the same free of charge to the Government in or before the proper State or United States courts.
- 23.3 Delays: If the Contractor refuses or fails to make delivery of the property within the time specified or any extension thereof, as provided in specifications, or to maintain the property in serviceable condition and diligently and competently to conduct the specified operations, the Government may, by written notice terminate the right of the Contractor to proceed with delivery or with further performance under the contract or such parts or parts thereof affected by the contract or otherwise and the Contractor shall be liable to the Government for any excess cost occasioned thereby. (See also FAR 52.236-13)
- 23.4 Disclaimer: The Contractor shall hold and save harmless the United states, its officers and employees, from all claims that may arise resulting from the Contractor's negligence in connection with the work to be performed under the contract, or from noncompliance by the Contractor with the provisions of the contract, contract drawings, and specifications and/or the instructions of the Contracting Officer or his authorized representative. (See also FAR 52.236-10)

END OF SECTION

SECTION 2

TECHNICAL PROVISIONS

1. WORK COVERED BY CONTRACT PRICE:

- 1.1 Payment Item No.0001: All costs connected with the mobilization and of the Contractor's dredging plant and equipment as defined below shall be included in the contract lump-sum price for Item No.0001 as listed in the Unit Price Schedule.
- 1.1.1 Mobilization shall include all costs for operations accomplished prior to commencement of actual dredging operations, i.e. transfer of dredge, attendant plant, and equipment to site; initial installation of pipe, and disposal area preparation required; and any other work that is necessary in advance of the actual dredging operations.
- 1.1.2 Demobilization shall include general preparation for transfer of plant to its home base, removal of pipelines, disposal area cleanup, and transfer of plant to its home base.
- 1.2 Payment Item No.0002: The contract price per cubic yard for dredging shall include the costs of removal, and disposal of all material as specified herein or as indicated on the contract drawings exclusive of mobilization and demobilization costs as defined in paragraphs 1.1, 1.1.1, and 1.1.2 above.
- 2. ORDER OF WORK: The channel shall be dredged to its authorized depth of 6 feet MLLW with a 1-foot allowable overdepth. The order of work will be at the option of the Contractor, subject to the approval of the Contracting Officer and compliance with the following paragraphs:
- (a) The work consists of furnishing, delivering, and operating one cutterhead, hydraulic, pipeline dredge with attendant plant capable of performing maintenance dredging in Isle of Wight Bay, Worcester County, Maryland. Dredged material shall be placed in the designated area adjacent to the Isle of Wight and behind constructed breakwaters.
- (b) The Contractor shall deliver the dredge and attendant plant ready for operation at the project site within 7 calendar days prior to the initiation of dredging. Upon arrival of the dredge and all attendant plant at the project site in Isle of Wight Bay, Ocean City, Maryland, the Contracting Officer's appointed inspector(s) will inspect the plant to determine whether any deficiencies have occurred subsequent to the time the plant was brought into compliance pursuant to the pre-award inspection. The Contractor will be notified of acceptance or rejection of the plant within 24 hours after delivery.
- (c) Upon Contractor notification and at least 24 hours prior to the commencement of dredging operations the Contractor and Government inspector(s) shall conduct a joint inspection of the completed disposal area operations. No dredging will be permitted to begin until the Contractor has satisfactorily corrected all deficiencies identified by the Government inspector(s).

- (d) No dredging shall be permitted unless the Contractor appointed quality control person is present on the disposal area(s) at all times while pumping operations are in progress.
- (e) The Contractor shall have all equipment on site and ready to dredge by July 1 unless otherwise directed by the Contracting Officer or representative.
- 3. PLANT: Plant and equipment employed on the work shall be in satisfactory operating condition and capable of safely and efficiently performing the work as set forth in the specification and shall be subject to inspection by the Contracting Officer at all times. Pipeline for hydraulic machines shall be kept in good conditions at all times, any leaks or breaks along their length shall be promptly and properly repaired. No reduction in the capacity of the plant employed on the work shall be made except by written permission of the Contracting Officer. The measure of the "Capacity of Plant" shall be its actual performance on the work to which these specifications apply. All floating pipelines used as accessways shall be equipped with walkways and guardrail conforming to paragraph 19.B.05 of Corps of Engineers Manual EM 385-1-1.
- 4. CHARACTER OF MATERIALS: The material to be removed to restore the depth within the limits shown on the contract drawings, is shoaling that has occurred since the channel was last dredged. It is believed that the material to be removed will consist principally of shell, sand, silt, mud, gravel, debris, trash and combinations thereof but will include any material that has shoaled the channel. Minor variations in the subsurface materials are to be expected and, if encountered, will not be considered as being materially different within the purview of the Contract Clause DIFFERING SITE CONDITIONS. Bidders are expected to examine the site of the work, and decide for themselves the character of the materials.

5. DISPOSAL OF EXCAVATED MATERIAL:

- 5.1 The Contractor shall use the designated Government-furnished disposal area. Within 7 days after receipt of Notice to Proceed, the Contractor shall furnish his plan for the dredging and disposal operations to the Contracting Officer for review and approval. This plan shall include a description of all proposed dredging, transporting, and rehandling equipment to be utilized in performance of the contract work, and shall also include disposal area layout plans indicating the locations of the dredged material discharge pipeline and the type and locations of the lights to be utilized for night operations. Dredging will not be permitted to commence until the Contracting Officer or his authorized representative approves this plan.
- 5.2 Misplaced Excavated Material: Any material that is deposited elsewhere than in places designated or approved by the Contracting Officer or his authorized representative will not be paid for and the Contractor may be required to remove such misplaced material and deposit it where directed at his expense. Misplaced excavated material may constitute a violation of applicable Federal, State, and Local statutes and the Contractor shall be

liable for any civil and/or criminal penalties imposed by these statutes.

- 6. GOVERNMENT-FURNISHED DISPOSAL AREA: The material excavated shall be transported and deposited in the area designated as "PLACEMENT SITE " on the contract drawings. The material will be hydraulically pumped to the site located at Isle of Wight adjacent to Maryland Route 90. The material will be placed behind the breakwater/sill as directed by the Contracting Officer's Representative. The site is bounded on two sides by the breakwater, one side by the existing upland and the other side by a pier structure. To create the pier and breakwaters a sand bridge will be built and left in place. The pipeline will not be placed directly on the newly constructed breakwaters. The pipeline will have at its end a baffle plate to lessen the velocity of slurry entering the placement area. This plate should be designed so that the sand bridge at the pier or any of the pier's pilings will not be eroded by the force of the incoming slurry. This will be used to cover the dredged material after placement. The placement site has an opening in the breakwater/sill that the contractor must close during placement activities to prevent material from leaving the site. In this opening should be a weir or other approved system to regulate water levels, the return flow, and turbidity levels.
- 6.1 In the event any leaks or breaks occur in the dredge pipeline, the Contractor will be required to immediately discontinue dredging operations until such leaks or breaks are remedied. The Contractor will also be required, at his expense; to recover and remove any material misplaced by such leaks or breaks.
- 6.2 The disposal area(s) shall be plainly marked by the Contractor with conspicuous stakes and lights if working at night.
- 6.3 The Contractor must deposit the dredged material within the designated area. The dredged material will be placed behind the breakwater/sill until the Federal channel has been dredged to its contract depth. Care should be taken to not disturb the pier that should be in place when dredging operations commence. If any damage occurs as a result of dredging and/or disposal operations to the pier, breakwater, or any other structure, the contractor make repairs, at his expense, to the satisfaction of the contracting officer. Another contractor may be working on site so care should be taken to coordinate activities at the placement site. After dredging is complete the weir system will be removed from the opening and taken by the contractor, unless otherwise directed by the contracting officer.
- 6.4 Pipeline Right of Ways: The contractor shall be responsible for laying pipeline in a manner that lessens impacts to the local users of the bay. All pipelines shall be clearly marked since the area is very shallow and must be weighted so the pipeline is completely submerged at all times.
- 6.5 Prevention of Landscape Defacement within Government Furnished Pipeline Rights-of-Ways. Unless otherwise noted on the contract drawings, the Contractor shall not deface, injure, or destroy trees or shrubs, nor remove or cut them without the authority of the Contracting Officer or his authorized representative. Monuments and markers shall be protected before construction operations commence and until contract completion.

- 6.6 Restoration of Landscape Damage within Government Furnished Pipeline Rights-of-Ways. Any tree, grassed area, sand dune, or other landscape scarred or damaged by the Contractor's equipment shall be restored as nearly as possible to its original condition at the Contractor's expense. The Contracting Officer shall determine the methods of restoration to be used.
- 7. Omit
- 8. Omit
- 9. NONCOMPLIANCE: The Contracting Officer will notify the Contractor in writing of any noncompliance with the foregoing provisions. Such notice, when delivered to the Contractor or his authorized representative at the site of the work, shall be deemed sufficient for the purpose. Within 24 hours after the receipt of such notice, the Contractor shall mail, or personally deliver to the Contracting Officer, a complete proposal of the prompt correction of the noncompliance. The Contracting Officer will review the proposal and return it to the Contractor approved, subject to such changes or conditions, as he finds necessary to assure correction of noncompliance. Immediately upon receipt of such approval, the Contractor shall begin the corrective work and shall carry it to completion. If the Contractor fails or refuses to submit his proposal or to proceed with the corrective work, the Contracting Officer may suspend all or any part of the work until satisfactory corrective action has been taken. No part of the time lost due to any such suspension shall be made the subject of a claim for extension neither of time nor for excess costs or damages by the Contractor. If he so elects, the Contracting Officer may cause the corrective work to be accomplished by others, in which event the cost thereof shall be chargeable against any monies otherwise due the Contractor from the Government.

10. INSPECTION AND TESTING:

- 10.1 The work will be conducted under the general direction of the District Engineer and will be subject to inspection by his appointed inspector(s) to insure strict compliance with the specifications. The Government inspector(s) will direct the maintenance of the gages, ranges, location marks, and limit marks in proper order. Portable lighting shall be provided upon request of the Government inspector(s) for more detailed inspection of potential trouble areas.
- 10.2 The Government inspector(s) will direct suspension of operations at any unit of work where the Contractor upon request does not correct a safety hazard, which is so grave as to endanger life, limb, or property or cause serious damage to the work. Failure on the part of the Contractor (1) to have a full-time quality control person present and fully alert and awake on the disposal area(s) at all times pumping operations are in progress or (2) to provide and maintain the required marine band radio for use by Government inspector(s) at all times while pumping operations are in progress and/or (3) to provide and maintain the approved lighting on the disposal area(s) for safe night operations are all basis for Government inspector direct suspension of work.

11. OVERDEPTH AND SIDE SLOPES:

- 11.1 Overdepth: To cover inaccuracies of the dredging process, material actually removed from within the specific areas to be dredged to a depth of not more than 1-foot below the required depth will be estimated and paid for at the contract price.
- 11.2 Side slopes: Material actually removed, within limits approved by the Contracting Officer, to provide for final side slopes not flatter than 1 vertical on 3 horizontal, but not in excess of the amount originally lying above this limiting side slope will be estimated and paid for, whether dredged in original position or by dredging space below the pay slope plane at the bottom of the slope for upslope material capable of falling into the cut. In computing the limiting amount of sideslope dredging, an over-depth of 1-foot measured vertically will be used.
- 11.3 Excessive dredging: Material taken from beyond the limits as extended in the provisions of paragraphs 11.1 and 11.2 above will be deducted from the total amount dredged as excessive overdepth dredging, or excessive sideslope dredging for which payment will not be made. Nothing herein shall be construed to prevent payment for the removal of shoals performed in accordance with the applicable provisions of the Special Clauses FINAL EXAMINATION AND ACCEPTANCE or SHOALING.

12. MEASUREMENT AND PAYMENT:

- 12.1 Mobilization and Demobilization: Mobilization and demobilization shall include all costs in connection with the development and maintenance of the disposal areas including but not limited to: obtaining the necessary permits and approvals for the work specified in accordance with the Contract Clause PERMITS AND RESPONSIBILITIES, full reimbursement for the premiums actually paid for performance and payment bonds, moving the Contractor's dredging plant and equipment to the site, initial laying of pipelines, maintenance of the disposal area, and the removal of all dredging plant, equipment, fencing and pipelines from the site upon completion of the work. Payment shall be made in accordance with Item No.0001, "Mobilization and Demobilization" of the Unit Price Schedule which shall be full compensation for the work performed.
- 12.2 Dredging: The total amount of material removed and to be paid for under the contract, will be measured by the cubic yard in place by computing the volume between the bottom surface shown by soundings of the last survey made before dredging and the bottom surface shown by the soundings of a survey made as soon as practicable after the entire work specified has been completed and included within the limits of the overdepth and side slopes described in the Technical Provision paragraph OVERDEPTH AND SIDE SLOPES less any deductions that may be required for misplaced material described in the Technical Provision paragraph MISPLACED MATERIAL. Payment shall be made in accordance with Item No.0002, Maintenance Dredging- Isle of Wight Bay Channel" of the Unit Price Schedule which will be full compensation for the dredging work performed.

- 12.3 The maps and/or drawings already prepared are believed to represent accurately conditions existing on the date shown on the contract drawings. Determination of quantities removed and the deductions made therefrom to determine quantities by place measurement to be paid in the area specified, after having once been made, will not be reopened except on evidence of collusion, fraud, or obvious error.
- 12.4 Monthly partial payments will be based on approximate quantities determined by soundings or sweepings taken behind the dredge and/or approximate quantities reported in the Daily Reports of Operations.
- 12.5 Should the Contractor in conjunction with work under this contract perform dredging for third parties adjacent to the specified area to be dredged, payment will be made by the Government only for material removed from the contract area within a vertical plane at the contract unit lines at the location work is performed for such third parties.
- 13. WORK IN THE VICINITY OF STRUCTURES AND UTILITY CROSSINGS:
- 13.1 The Contractor shall exercise caution when working in the vicinity of structures and utility crossings or adjacent to the channel or disposal areas. Repair of any damage resulting from excessive or improper excavation in the bottom or side slopes of the channel will be the responsibility of the Contractor. Where dredging to the required elevation might endanger any structure, the Contracting Officer may reduce the required excavation in the vicinity of such structure.
- 13.2 The Contractor shall provide at least project channel dimensions over all utility crossings. The Contractor shall submit for approval by the Contracting Officer a detailed plan of operation at each pipeline or utility crossing where construction surveys indicated project channel does not exist. The plan shall contain emergency measures to be taken in the event of an accident. The Contractor shall notify the owners of pipelines or utilities at least three calendar days prior to operating within 150 feet of a pipeline or utility. The Government will not be responsible for any damage to structure or utilities due to the Contractor's deviation from the approved plan.
- 13.3 Any unidentified pipelines or structures which may be found within the limits of work shall not be disturbed nor shall dredging or the disposal of dredge material be performed at these locations unless, and until, approved by the Contracting Officer.

14. Omit

15. QUALITY CONTROL: The Contractor shall establish and maintain Quality Control to assure compliance with contract requirements and shall maintain records of his quality control for all construction and dredging operations required by the contract work. A copy of these records, as well as the records of corrective action taken, shall be furnished the Government as required in the QUALITY CONTROL paragraphs in the Special Clauses.

END OF SECTION

DAILY QUALITY CONTROL REPORT

Contract No.: _		Date:		Rpt. No.:					
Project Title &	Location:								
Weather: Clear	P. Cloudy	Cloudy	Rainfall	in (% of workday)				
Temperature dur	ing workday	: High de	grees	F. Low	degrees F.				
1. WORK PERFOR	MED BY CONTI	RACTORS/SUBCONT	RACTOR(S)						
	No. of Workers	Crafts	Hrs	Descrip	otion of Work				

2. OPERATING EQUIPMENT DATA (Not hand tools)

Equipment	Date of arrival/ departure	Owned or Rented	Hours Used	Hours Idle	Hours of Rep./Main

3. WORK PERFORMED TODAY: (Indicate location and description of work performed by prime and/or subcontractors).

4.	QUALITY CONTROL INSPECTIONS & RESULTS (Includes a description of prepatory, initial, and/or follow-up inspections or meetings; check of subcontractors work and materials delivered to site compared to submittals and/or specifications; comments on proper storage of materials; included comments on corrective actions to be taken):
5.	QUALITY CONTROL TESTING AND RESULTS (Comment on tests and attach test reports):
6.	DAILY SAFETY INSPECTIONS (Include comments on new hazards to be added to Hazard Analysis and corrective action of any safety issues):
7.	REMARKS (Include conversations with or instructions from the Government representatives; delays of any kind that are impacting the job; conflicts in the contract documents; comments on change orders; environmental considerations; etc.):
8.	CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All material, equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications except as noted above.
	Contractor Quality Control Officer

	DAILY REPORT	T 0F 01	PERATIONS	}	1 00	TIRACI NO.		1	NGKW-37				
DREDGE					CO	TRACTOR	I	(re	eder)				
	•												
LOCATION OF	YORK (Range, St	atloning	, Longitudi		CHARACTER OF WORK								
				() Maintenance () New									
DISPOSAL AREA	OR REHANDLING	BASIN			LEI	ENGTH OF DISCHARGE PIPELINE: Total Length Ft.							
					Por	ntoon Ft.	Shore 4 Ft.	Submerged	Ft.				
CHARACTER OF	MATERIAL AND P	ERCENTAG	E OF EACH										
Gravel		Clay	Mud	silt		Hardpan		Others					
AVERAGE DEPTH	(Feet and Ten	ths)					WEATH ER						
Before Dredgi			redging	Pay		t Depth Erage Discharge Pre	SSURE IN PLACE D	EN C L TV					
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DENSITY OF R	t Per Second	DENSI	TY OF WATER	Inches	OVE	R SLUICE WEIR	HEIGHT OF DISCHARG	E OVER SLU	G/L				
DENSITE OF K	IVER WATER	UCN 31	11 01 #2122	o o o o o o o o o o o o o o o o o o o	•••	• • • • • • • • • • • • • • • • • •			,				
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1	TEM	UNIT	GROSS	NET		Dredging							
Av. width of	cut	Feet				Per	centage of total tir						
Area dredged		Sq.Ft.				NON-EFFECTIVE TIM	E		·				
Distance advar	nced this period	Feet				Handling pipe lin	4.8						
Distance advar	nced previously	Feet				Handling swinging	lines	.					
Distance adva	nced to date	Feet				Clearing pump and							
Scows loaded		Number		<u> </u>	_	Clearing cutter o							
Av. load per		Cu.Yds.				Taking fuel and a							
Amt. dredged		Cu.Yds.	 			Changing location							
Amt. dredged		Cu.Yds.	 		_	Loss due to oppos							
Amt. dredged		Cu.Yds.				Loss due to passi		1					
	edged to date	Cu.Yde.	<u> </u>			Hinor operating repairs Waiting for attendant plant							
Av. pump spee Av. discharge		R.P.M.]		Preparations		-					
AV. GIRCHARGE		7000				Transferring plan		 					
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Barges) Pero	entage of Total Tim	•					
Scows		-		•		LOST TIME	(Not chargeable to		, , , , , , ,				
Derrick						Repair time (8 cor	secutive hours or mo						
						Collisions							
	COMMO	DITIES (CONSUMED			Out of commission	1						
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Fuel oll	Gals.						I Lost Time						
Lubricants	Gals.					Perc		 					
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